**Abstract**

The aim of the invention is to provide a method for determining the frequency response of an electrooptical component, particularly, for example, of a light-generating or light-modulating component, which is easy to carry out. To this end, the invention provides a method during which optical pulses with a pulse frequency (fp) are generated. The electrooptical component (60) is controlled by an electrical measuring signal (Smess) with a measuring frequency (fmess) in such a manner that an optical output signal (Saus) is formed that is modulated with the measuring frequency (fmess). The measuring frequency (fmess) is equal to an integral multiple of the pulse frequency (fp) plus a predetermined frequency offset ($g(D)f). The pulses and the output signal (Saus) are mixed, and a mixed product (M ) is detected whose modulation frequency corresponds to the predetermined frequency offset ($g(D)f). The mixed product indicates the frequency response of the electrooptical component (60) at the measuring frequency (fmess).